SAMPEX Instrument History Dump

ITOS User's Manual \$Date: 2006/03/21 16:08:55 \$ Copyright 1999-2006, United States Government as represented by the Administrator of the National Aeronautics and Space Administration. No copyright is claimed in the United States under Title 17, U.S. Code.

This software and documentation are controlled exports and may only be released to U.S. Citizens and appropriate Permanent Residents in the United States. If you have any questions with respect to this constraint contact the GSFC center export administrator, <Thomas.R.Weisz@nasa.gov>.

This product contains software from the Integrated Test and Operations System (ITOS), a satellite ground data system developed at the Goddard Space Flight Center in Greenbelt MD. See http://itos.gsfc.nasa.gov/ or e-mail <itos@itos.gsfc.nasa.gov> for additional information.

You may use this software for any purpose provided you agree to the following terms and conditions:

- 1. Redistributions of source code must retain the above copyright notice and this list of conditions.
- 2. Redistributions in binary form must reproduce the above copyright notice and this list of conditions in the documentation and/or other materials provided with the distribution.
- 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product contains software from the Integrated Test and Operations System (ITOS), a satellite ground data system developed at the Goddard Space Flight Center in Greenbelt MD.

This software is provided "as is" without any warranty of any kind, either express, implied, or statutory, including, but not limited to, any warranty that the software will conform to specification, any implied warranties of merchantability, fitness for a particular purpose, and freedom from infringement and any warranty that the documentation will conform to their program or will be error free.

In no event shall NASA be liable for any damages, including, but not limited to, direct, indirect, special or consequential damages, arising out of, resulting from, or in any way connected with this software, whether or not based upon warranty, contract, tort, or otherwise, whether or not injury was sustained by persons or property or otherwise, and whether or not loss was sustained from or arose out of the results of, or use of, their software or services provided hereunder.

Smpx_histdump is an ITOS related program to process SAMPEX instrument history packets (appid 33 .. 37) and generate 19 formatted reports to disk files. Smpx_histdump is started by a STOL proc sampex_histdump which acquires the current running telemetry stream. See STOL START directive for starting a proc. Note, there should be no "default" entry in the 'ctrlsource.dat' file. The generated reports are placed in the sequential print directory defined by the ITOS global variable GBL_SPRTDIR.

- Command line arguments.
- Proc arguments.

0.1 Command-line arguments for Smpx_histdump

```
smpx_histdump -t <txport> -h <host> -p <port> -f <file> -v <int>
    -t <txport> Transport over which to get data: 'udp',
    'client_tcp', 'server_tcp', 'file'. Defaults
    to 'client_tcp' if a <host> is given, to
    'file' if a <file> is given, else to 'server_tcp'.
```

-h <host> Host to which to connect for data under the client_tcp transport, and the host from which to accept data under the udp transport (defaults to any host). Under udp, class D IP addresses cause the program to join the given multicast group. Required for client_tcp transport.

-p <port> Port to which to connect for data under the client_tcp transport, or the port on which to listen under the server_tcp transport, or the port on which to read under the udp transport. Required for client_tcp transports. For other transports, defaults to 0 which causes the system to select the port.

-f <file> Input file name under the file transport. If
file <txport> is specified, but <file> is not,
defaults to standard input.
NOTE that the file must contain annotation & itp
header followed by the history packet in order

0.2 Proc invocation arguments for sampex_histdump.proc

start sampex_histdump(operation, station, virtual_channel)
operation [begin, end]

\$Date: 2006/03/21 16:08:55 \$

the acquire of telemetry]. When doing a playback use a NULL string """.

virtual channel [0 .. 7, the VC number the history data comes down on most likely vc0.

\$Date: 2006/03/21 16:08:55 \$